

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 410 (East-West Hwy) and 23rd Avenue in Prince George's County. The pedestal poles on the northeast and southeast quadrants shall be replaced due to the installation of handicapped ramps by the District on all four quadrants of this intersection. The project also includes the installation of black-faced vehicular traffic signals, the addition of a near side signal for Northbound 23rd Avenue and upgrading the school crossing signs to current standards. MD 410 (East-West Hwy) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA seven-phase, semi-actuated mode, with the MD 410 (East-West Hwy) approaches continuing to run concurrently. Exclusive/Permissive left turn phases shall continue to be provided for both approaches of MD 410 (East-West Hwy). The pedestrian phase with pushbutton actuation shall remain in operation across the east leg of MD 410 (East-West Hwy). An Exclusive/Permissive left turn phase for the southbound approach of 23rd Avenue shall remain in operation. The 23rd Avenue approaches shall continue to run concurrently.
- A fully-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall remain in operation at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

QUANTITY	DESCRIPTION
144 S.F.	SHEET ALUMINUM SIGN
-2 EACH	"23rd Ave." (72"x36")
-10 EACH	S1-1(FYG)(36"x36")
-3 EACH	M6-2R(FYG)(21"x15")
-5 EACH	S4-3(FYG)(24"x8")
-1 EACH	M6-6(Mod)(FYG)(21"x15")
-1 EACH	M6-2L(FYG)(21"x15")

EQUIPMENT LIST

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2002	Test Pit Excavation	2 C.Y.
5004	12" white heat applied permanent preformed thermoplastic pavement marking.	220 L.F.
5008	Remove existing pavement markings - any width.	220 L.F.
8010	Furnish and install 12" pedestrian signal head section	4 EA
8011	12" vehicular traffic signal head section	39 EA
8019	8" vehicular traffic signal head section.	9 EA
8030	Furnish and install breakaway pedestal pole (10').	2 EA
8032	Pedestrian pushbutton and R10-3C sign. (Note: Sign to read "PUSHBUTTON TO CROSS EAST-WEST HWY".)	2 EA
8047	Remove and dispose of existing foundation 12" below grade.	2 EA
8048	Remove and dispose of existing material and equipment per assignment.	1 EA
8051	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched	20 L.F.
8052	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - bored.	40 L.F.

8059	Furnish and install concrete for signal foundation.	2 C.Y.
8061	Furnish and install wood sign supports 4"x6".	250 L.F.
8062	Furnish and install No. 6 AWG stranded bare copper ground wire.	100 L.F.
8074	Furnish and install electrical handhole.	1 EA
8076	Install ground mounted sign.	144 S.F.
8082	Furnish and install ground rod 3/4" x 10'.	2 EA
8084	Furnish and install electrical cable - 2 conductor (No. 14 AWG).	770 L.F.
8085	Furnish and install electrical cable - 3 conductor (No. 14 AWG).	780 L.F.
8087	Furnish and install electrical cable- 7 conductor (No. 14 awg)	500 L.F.

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

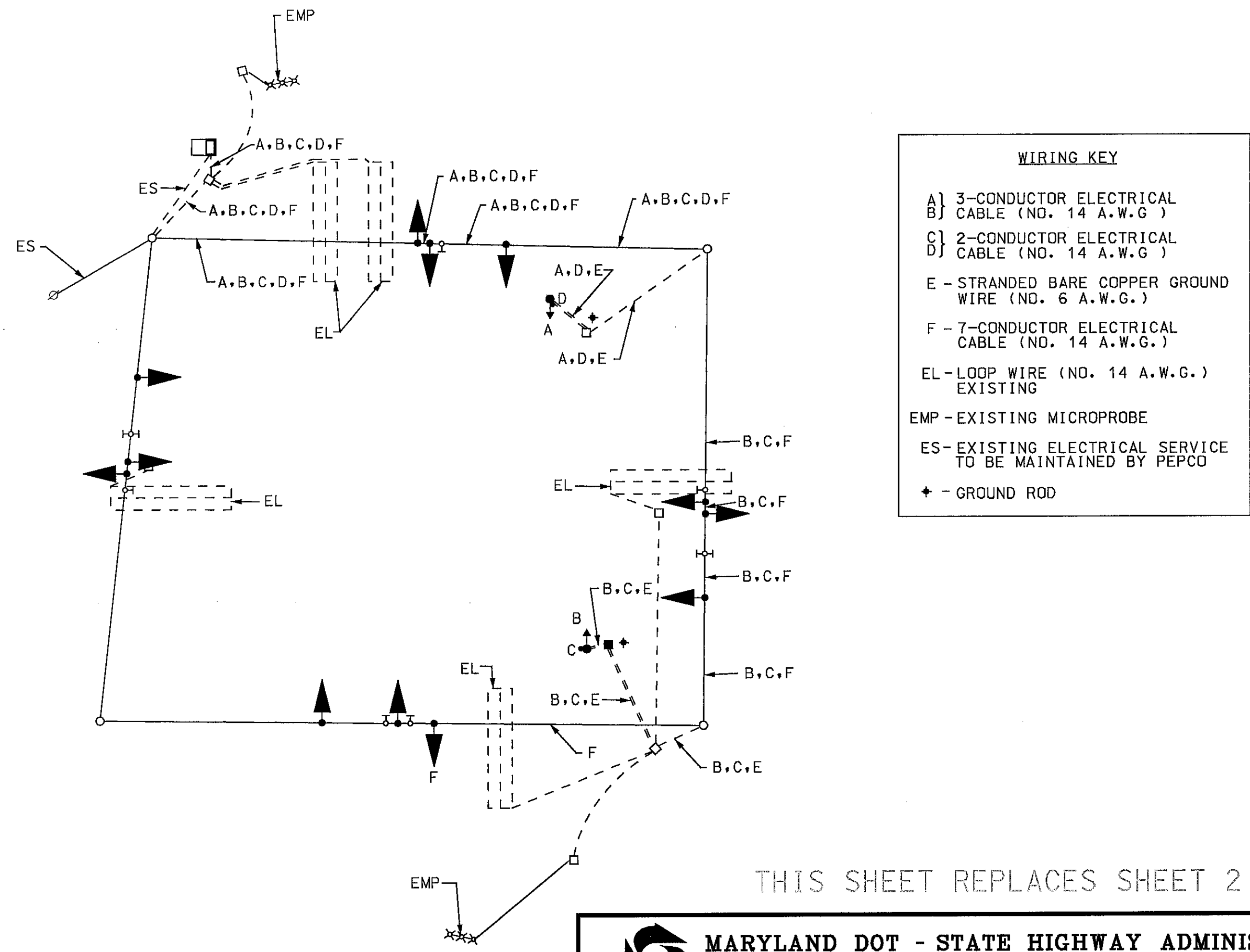
QUANTITY DESCRIPTION

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 + 5	<G-	<G-	R	<G-	<G-	R	R	R	R	R	R	R	DW	DW
CHANGES TO PHASES 1 + 6, 2 + 5 OR 2 + 6														
PHASE 1 + 6	<G-/<G-	G	R	R	R	R	R	R	R	R	R	R	DW	DW
1 + 6 CHANGE	<Y-/<Y-	G	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 5	R	R	R	<G-/<G-	G	R	R	R	R	R	R	R	DW	DW
2 + 5 CHANGE	R	R	R	<Y-/<Y-	G	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 4 - 7	R	R	R	R	R	R	R	R	R	<G-/<G-	<G-/<G-	G	DW	DW
4 + 7 CHANGE	R	R	R	R	R	R	R	R	R	<Y-/<Y-	<Y-/<Y-	G	DW	DW
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	WALK	WALK
PED CLEAR	R	R	R	R	R	R	G	G	G	G	G	G	FL/DW	FL/DW
4 + 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



THIS SHEET REPLACES SHEET 2

RK & K
RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TELE: (410) 728-2900 FAX: (410) 383-3270

STS
STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy., NW
Glen Burnie, MD 21061
Ph (410) 590-2500
Fax (410) 590-6637

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 410 (EAST-WEST HWY) AND 23rd AVENUE
HYATTSVILLE, MARYLAND

DRAWN BY: SRM	CHECKED BY: BLB	SCALE: NONE	DATE: 10-1-02	F.A.P. NO. AC-STP6-000S(786)E	S.H.A. NO. PG-0415-000	COUNTY: PRINCE GEORGE'S	LOG MILE: 16041001.74	TS NO. 10658	T.I.M.S. NO. F127	SHEET NO. 2A OF 2
---------------	-----------------	-------------	---------------	-------------------------------	------------------------	-------------------------	-----------------------	--------------	-------------------	-------------------